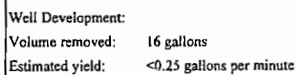


APPENDIX C
WELL CONSTRUCTION RECORDS





Project Number: 2246-021

Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive

Quakertown, Pennsylvania

Boring Log

Boring Number MW-5D

Sheet 1 of 1

Equipment: Air Rotary

Sampling Method: N/A

Depth of Boring: 55'

Top of Casing Elevation: 533.88'

Water Level: 19.86'

Ground Surface Elevation: 534.23'

Project Manager: Ron Carper

Logged By: James Miller

Date Started: 2/24/99

Drilling Contractor: Advanced Drilling, Inc.

Driller: Scott Albarella

Date Finished: 2/24/99

Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	Classification of Material f-fine fm-fine to medium a.-and (20-35%) m-medium fc-fine to coarse s.-some (20-35%) c-coarse mc-medium to coarse l.-little (10-20%) All capital letters-50%+ t.-trace (1-10%)	Details
	N/A	N/A	N/A	N/A	N/A				Flushmount manhole
2								Existing well retrofitted. 4" casing removed, sand pack, bentonite seal and grout cleared from borehole with air rotary drill rig. New well constructed in existing borehole with 2" diameter PVC. Borehole diameter = 8".	2'x2' concrete pad
4									Locking expansion cap
6									1'-41': cement/ bentonite grout
8									
10									
12									0.5'-7': 2" diameter, Schedule 40 PVC riser
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									
36									
38									
40									
42									41'-43': bentonite pellet seal
44									
46									
48									43'-55': #2 sand
50									
52								Well Development: Volume removed: 10 gallons Estimated yield: 0.5 gallons per minute	45'-55': 2" diameter, 0.020" slot PVC screen
54									
56									
								55': Extent of boring	

[illegible]



Project Number: 2246-021

Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility
35 Penn Am Drive
Quakertown, Pennsylvania**Boring Log**

Boring Number MW-6D

Sheet 1 of 1

Equipment: Air Rotary

Sampling Method: N/A

Depth of Boring: 55'

Water Level: 19.39'

Top of Casing Elevation: 533.04'

Ground Surface Elevation: 533.42'

Project Manager: Ron Carper

Logged By: James Miller

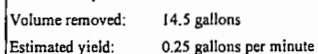
Date Started: 2/24/99

Drilling Contractor: Advanced Drilling, Inc.

Driller: Scott Albarella

Date Finished: 2/24/99

Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	Classification of Material f-fine m-medium c-coarse l/m-fine to medium l/c-fine to coarse m/c-medium to coarse a.-and (20-35%) s.-some (20-35%) l.-little (10-20%) t.-trace (1-10%) All capital letters-50%+	Details
2	N/A	N/A	N/A	N/A	N/A			Existing well retrofitted. 4" casing removed, sand pack, bentonite seal and grout cleared from borehole with air rotary drill rig. New well constructed in existing borehole with 2" diameter PVC. Borehole diameter = 8".	Flushmount manhole
4									2'x2' concrete pad Locking expansion cap
6									1'-41' cement/ bentonite grout
8									
10									
12									0.5'-7': 2" diameter, Schedule 40 PVC riser
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									
36									
38									
40									
42									41'-43': bentonite pellet seal
44									
46									
48									43'-55': #2 sand
50									
52								Well Development: Volume removed: 20 gallons Estimated yield: 0.5 gallons per minute	45'-55': 2" diameter, 0.020" slot PVC screen
54									
56								55': Extent of boring	





Project Number: 2246-021			Boring Log		
Client: Avery Dennison			Boring Number MW-7D		
Site: Avery Dennison Fasson Roll Division Facility			Sheet 1 of 1		
35 Penn Am Drive			Equipment: Air Rotary		
Quakertown, Pennsylvania			Sampling Method: N/A		
Manager: Ron Carper		Logged By: James Miller	Date Started: 2/26/99	Depth of Boring: 55'	Top of Casing Elevation: 533.31'
Contractor: Advanced Drilling, Inc.		Driller: Rick Empson	Date Finished: 2/26/99	Water Level: 13.93'	Ground Surface Elevation: 533.55'

Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	Classification of Material	Details
							f-fine m-medium c-coarse f/m-fine to medium f/c-fine to coarse m/c-medium to coarse All capital letters-50%+ a.-and (20-35%) s.-some (20-35%) l.-little (10-20%) t.-trace (1-10%)	Flushmount manhole
N/A	N/A	N/A	N/A	N/A			0'-2': 2" asphalt layer w/ gravel subbase 2'-9': Red brown clayey SILT	2'x2' concrete pad Locking expansion cap 1'-41': cement/ bentonite grout
							9'-13': Red weathered SHALE and SILTSTONE bedrock, soft.	
							9'-13': Red SHALE and SILTSTONE bedrock.	0.5'-7': 2" diameter, Schedule 40 PVC riser
							23'-24': Rock becomes more competent. 24': Return to soft bedrock as above.	
							32'-35': Fractured argillaceous SHALE. Water bearing.	
							35'-47': Red SHALE as above.	
							Borehole diameter = 6"	41'-43': bentonite pellet seal
							47'-55': Rock becomes more competent.	43'-55': #2 sand
							Well Development: Volume removed: 35 gallons Estimated yield: 0.5 gallons per minute	45'-55': 2" diameter, 0.020" slot PVC screen
							55': Extent of boring	

Project Number: 2246-021
Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility
35 Penn Am Drive
Quakertown, Pennsylvania

Boring Log

Boring Number MW-8S

Sheet 1 of 1

<i>Equipment:</i>	Air Rotary
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Sampling Method: N/A

Depth of Boring: 20'

Top of Casing Elevation: 535.19'

Water Level: 7'

Ground Surface Elevation: 535.49'

Project Manager: Ron Carper

Logged By: James Miller

Date Started: 2/25/99

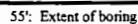
Drilling Contractor: Advanced Drilling, Inc.

Driller: Rick Empson

Date Finished: 2/25/99

Water Level: 7'

[illegible]



Project Number: 2246-021
Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility
35 Penn Am Drive
Quakertown, Pennsylvania

Boring Log

Boring Number MW-12S

Sheet 1 of 1

<i>Equipment:</i>	Air Rotary
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Sampling Method:	N/A
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Depth of Boring: 15'

Top of Casing Elevation: 534.71'

Ground Surface Elevation: 534.93'

Project Manager: Ron Carper

Logged By: James Miller

Date Started: 3/1/99

Drilling Contractor: Advanced Drilling, Inc.

Driller: Rick Empson

<i>Date Finished:</i> 3/1/99

Water Level:	
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Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	Classification of Material			Details
								f-fine m-medium c-coarse	f/m-fine to medium f/c-fine to coarse m/c-medium to coarse All capital letters-50%+	a.-and (20-35%) s.-some (20-35%) l.-little (10-20%) t.-trace (1-10%)	
											Flushmount manhole
1	N/A	N/A	N/A	N/A	N/A			0'-1': Gravel surface			2'x2' concrete pad
2								1'-7': Red brown clayey SILT			Locking expansion cap
3											0.5'-1': cement/ betonite grout
4											0.5'-3': 4" diameter, Schedule 40 PVC riser
5											1'-2': bentonite pellet seal
6								7'-13': Red weathered SHALE bedrock			3'-15': #2 sand
7											
8											
9											
10											
11											
12											4'-14': 2" diameter, 0.020" slot PVC screen
13								13'-15': Red SHALE and SILTSTONE bedrock			
14											
15											
16								15': Extent of boring			
17								Borehole diameter = 6"			
18											
19											
20											
21											
22											
23											
24											
25											
26								Well Development:			
27								Volume removed:	35 gallons		
28								Estimated yield:	1.5 gallons per minute		



Project Number: 2246-021

Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive

Quakertown, Pennsylvania

Boring Log

Boring Number MW-12D

Sheet 1 of 1

Equipment: Air Rotary

Sampling Method: N/A

Depth of Boring: 55'

Top of Casing Elevation: 534.71'

Water Level: 22'

Ground Surface Elevation: 534.93'

Project Manager: Ron Carper

Logged By: James Miller

Date Started: 2/26/99

Drilling Contractor: Advanced Drilling, Inc.

Driller: Rick Empson

Date Finished: 2/26/99

Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PTD (ppm)	Classification of Material f-fine f/m-fine to medium a.-and (20-35%) m-medium f/c-fine to coarse s.-some (20-35%) c-coarse m/c-medium to coarse l.-little (10-20%) All capital letters-50%+ t.-trace (1-10%)	Details
2	N/A	N/A	N/A	N/A	N/A			0'-1': Gravel surface	2'x2' concrete pad
4								1'-7': Red brown clayey SILT	Locking expansion cap
6								7'-13': Red weathered SHALE	1'-41': cement/ bentonite grout
8									
10									
12								13'-55': Red SHALE and SILTSTONE bedrock	0.5'-7': 2" diameter, Schedule 40 PVC riser
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									
36									
38									
40									
42								Borehole diameter = 6"	41'-43': bentonite pellet seal
44									
46									
48									43'-55': #2 sand
50								Well Development:	45'-55': 2" diameter, 0.020" slot PVC screen
52								Volume removed: 10 gallons	
54								Estimated yield: <0.25 gallons per minute	
56								55': Extent of boring	